

MOTION DETECTION USING MULTI-RESOLUTION IMAGE PROCESSING

ABSTRACT OF THE DISCLOSURE

Motion detection using sub-band image processing. A device has
5 decompose logic that decomposes an input image into composite images
that comprise different frequency bands of the input image. The device
also has storage coupled to the decompose logic to store composite
images as reference images for comparison with a later input image.
The device further has comparison logic to compare the composite
10 images with the reference images to produce preliminary motion values
for the different frequency bands. The device also has logic to determine
a final motion value from the preliminary motion values.